

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A918 095565-1184 - Swing Drive

Sample No: LH0268875

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0268875	LH0220687	LHMC130198	LHMC130528
Sample Date	24 Jan 2024	23 Sep 2022	19 Sep 2020	12 Dec 2019
Machine Hours	15862	9705	3571	600
Oil Hours	1000	0	1000	600
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	NORMAL	NORMAL	NORMAL

UNITED SCRAP

1545 S CICERO AVE
BURR RIDGE, IL
US 60527
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	143	136	189	193
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T:
F:



CONTAMINATION

Water	%	1.84	NEG	NEG	NEG
Silicon	ppm	3	2	1	<1
Sodium	ppm	2	1	4	6
Potassium	ppm	2	<1	0	1

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. Appearance is unacceptable. There is a high concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	415	84	163	110
Copper	ppm	50	76	12	26
Lead	ppm	1	0	0	<1
Tin	ppm	2	2	0	<1
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	3	<1	1	<1
Molybdenum	ppm	<1	<1	0	0
Nickel	ppm	1	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	3	<1	2	1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

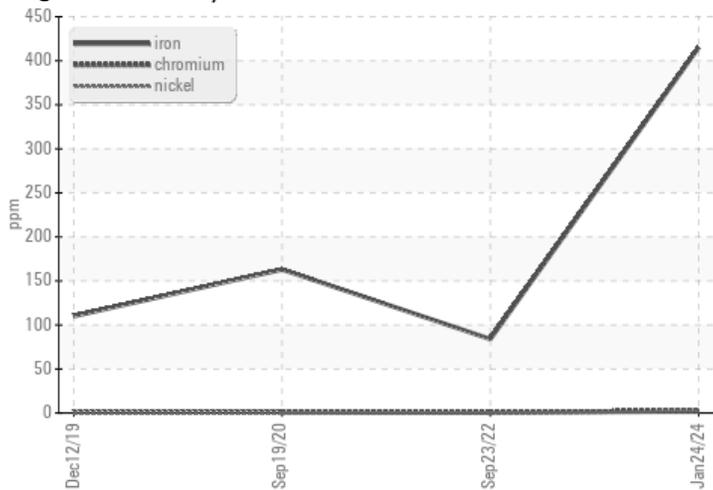
Calcium	ppm	19	26	12	36
Magnesium	ppm	6	4	9	16
Zinc	ppm	49	23	40	75
Phosphorus	ppm	1885	1582	2040	2038
Barium	ppm	<1	0	<1	5
Boron	ppm	247	203	9	10

Depot: UNIBURIL
Unique No: 10884179
Signed: Sean Felton
Report Date: 19 Feb 2024

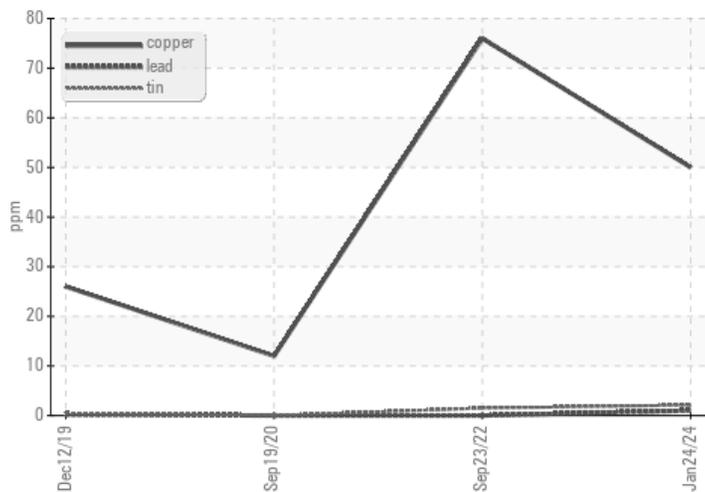


GRAPHS

● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

